

School Program

Monday July 13th

Morning session

8:00 - 9:00 --- Coffee, welcome, and course goals.
Introduction by Dr. Carton (Chair, AOSC, UMD)
and Dr. Tolman (Director, EMC/NCEP)

9:00 - 10:00 --- Intro to Phase averaged wave modeling

10:00 - 11:00 --- Pre compilation of WW3

11:00 - 12:00 --- Modular structure of WW3

12:00 - 13:00 --- Running the model single grid

13:00 - 14:00 --- *Lunch Break*

Afternoon session

14:00 - 17:30 --- Afternoon Tutorials
Compiling and running the wave model for a single grid

Tuesday July 14th

Morning session

8:30 - 9:00 --- Arriving at UMD

9:00 - 10:00 --- Solving the action balance equation: source terms in WW3

10:00 - 11:00 --- Time stepping, limiters, adaptive time stepping

11:00 - 11:30 --- Garden sprinkler effects and alleviation

11:30 - 12:30 --- Parallel implementation of WW3

12:30 - 14:00 --- *Lunch Break*

Afternoon session

14:00 - 17:30 --- Afternoon tutorials
Running the model with different source term switches

Wednesday July 15th

Morning session

8:30 - 9:00 --- Arriving at UMD

9:00 - 10:00 --- Multi grid operations in WW3

10:00 - 10:30 --- Grid reconciliation of similar grids

10:30 - 11:30 --- Different grid types and grid integration

11:30 - 12:30 --- Load balancing

12:30 - 14:00 --- *Lunch Break*

Afternoon session

14:00 - 17:30 --- Afternoon tutorials
Grid generation tutorial using the gridgen package

Thursday July 16th

Morning session

8:30 - 9:00 --- Arriving at UMD

9:00 - 11:00 --- Unstructured grid formulation in WW3

11:00 - 12:00 --- Running WW3 with unstructured grids

12:00 - 13:30 --- *Lunch Break*

Afternoon session

13:30 - 17:30 --- Afternoon tutorial

Running the model with unstructured grids

Friday July 17th

Morning session

8:30 - 9:00 --- Arriving at UMD

9:00 - 10:00 --- Regression testing

10:00 - 11:00 --- Model validation (data analysis do's and don'ts)

11:00 - 12:00 --- Partition and tracking

12:00 - 13:30 --- *Lunch Break*

Afternoon session

13:30 - 17:30 --- Afternoon tutorial

Using regression testing package

(last part of the afternoon will be reserved for answering questions about the course and clarifying doubts)